

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

BOARD ORDER NO. R6T-2004-0028
WDID NO. 6A020009000

REVISED WASTE DISCHARGE REQUIREMENTS

FOR

**SORENSEN'S RESORT
WASTEWATER TREATMENT SYSTEMS**

_____ Alpine County _____

The California Regional Water Quality Control Board, Lahontan Region (Regional Board) finds:

1. Discharger

The Sorenson's Resort, a Limited Liability Corporation (LLC), is currently operated by John and Patricia Brissenden. For the purposes of this Order, the Sorenson's Resort LLC is referred to as the "Discharger." The Discharger has submitted a complete report of waste discharge for new wastewater treatment and disposal systems for the Sorenson's Resort in Alpine County.

2. Facility

The Sorenson's Resort Wastewater Recycling Plant is the facility from which the discharge will occur and, for the purposes of this Order, is referred to as the "Facility." Upon approval by the South Tahoe Public Utility District (District), the Facility will discharge secondary-treated and disinfected wastewater to the District's Alpine County wastewater export system, and thence to Harvey Place Reservoir and the District's Alpine County recycled wastewater conveyance system, where the recycled water is used for pasture irrigation.

Existing onsite wastewater treatment and disposal systems (septic tanks and subsurface leaching areas) currently serving the Sorenson's Resort will be retained as an alternative "backup" system for the Facility. For the purposes of this Order, the onsite wastewater treatment and disposal systems will henceforth be referred to as "OWTS."

3. History of Previous Regulation by the Regional Board

The Regional Board adopted Board Order No. 6-72-105 on December 19, 1972 to regulate the discharge of domestic wastewater from the Sorenson's Resort to OWTS. Board Order No. 6-95-25, adopted on February 9, 1995, updated waste discharge requirements for the OWTS. The Regional Board has not previously established waste discharge requirements for the Facility, which is a new treatment unit designed for discharge to the District's export pipeline (the portion generally referred to as the "C Line").

4. Reason for Action

The Regional Board is revising waste discharge requirements to regulate the operation of a new wastewater treatment system for the Sorenson's Resort, and to regulate discharges to the existing OWTS that may occur under certain circumstances or emergency conditions as established in this Order. The Facility is not installed at this time. The Discharger, on his own initiative, is in the process of obtaining the necessary approvals to construct and operate the Facility. This Order anticipates that the Discharger will construct the Facility and initiate discharge from the Facility to the District's C Line at the earliest opportunity, contingent on approval by the Regional Board, the District, and Alpine County. This Order therefore establishes waste discharge requirements for the Facility, and authorizes continued use of the OWTS until the discharge to the C Line commences and under specified circumstances thereafter. This update establishes waste discharge requirements for the Facility that are consistent with effluent limitations applicable to wastewater discharged from the District's C Line, as established in Board Order No. R6T-2004-0010, *Updated Waste Discharge Requirements for South Tahoe Public Utility District Wastewater Recycling Plant*, adopted on March 10, 2004.

5. Facility Location

The Sorenson's Resort is located in the Upper West Fork Carson River Hydrologic Unit, and includes Alpine County Assessor's Parcel Numbers 001-040-01, 02, 03 and 01-030-08. The Facility is located at the Sorenson's Resort, approximately one mile east of the junction of Highway 88 and Highway 89, on Highway 88 in Hope Valley, as shown on Attachment A, which is hereby made a part of this Order.

6. Facility and Discharge Description

The Sorenson's Resort is a year-round vacation resort and provides visitors with a variety of services and lodging accommodations. In its present state it consists of 25 individual cabins, one three-unit cabin, one café, and one small laundry facility. The Discharger operates a water supply and distribution system supplied from an onsite water supply well. Based on flow monitoring information submitted by the Discharger, current water consumption rates at the Facility are approximately 4,000 gallons per day (GPD); therefore, wastewater flows are estimated to be generally less than 4,000 GPD.

The Facility consists of an above-ground, skid-mounted modular package treatment plant, "10 CON 3 EEC High Speed Bio System," (manufactured by EEC North America LLC), and appurtenant and accessory equipment, as diagrammed in Attachment B, which is hereby made a part of this Order.

The Facility is described by the system manufacturer in a design report dated May 25, 2004, and is designed to meet secondary wastewater treatment standards for peak flows up to 10,000 GPD. Wastewater discharged to the three existing septic tanks is first pumped to a 3500-gallon flow-equalization tank, and then pumped to the package treatment unit, where it undergoes biological treatment with activated sludge and a free-floating suspended medium for biofilm growth. The biologically-treated wastewater is discharged to a gravity clarifier, and thence through a skim well to a tube settler for clarification. Polymer may be added to assist clarification processes. Sludge collected in the clarifier is recycled into the package treatment unit and/or discharged to a 1500-gallon sludge storage tank that decants free liquids to the flow equalization tank. The

clarified effluent is then put through a sand filter for final effluent polishing. The sand filter is periodically backwashed to the flow-equalization tank. Disinfection of the filtered effluent will be accomplished by exposure to ultraviolet (UV) light, and the disinfected final effluent will be discharged into the District's C Line, located within the District's easement parallel to State Route 88 near the Resort entrance. The point of compliance for Facility effluent discharged to the District's C Line will be subsequently defined as a location prior to the point of entry into the District's C Line.

The following information is provided for completeness, but is not within the Discharger's ability to control. The District's C Line currently carries an average daily flow on the order of five million gallons per day (MGD). The pipeline discharges by gravity flow to Harvey Place Reservoir, which is located between Diamond Valley Road and Indian Creek Reservoir approximately three miles southwest of the community of Woodfords in Alpine County. Harvey Place Reservoir is owned and operated by the District and temporarily stores recycled wastewater that is discharged between April 1 through October 15 to a conveyance system that distributes the water for reuse. The present reuse of the recycled water occurs on ranch lands in the Diamond Valley, Wade Valley, and Carson Valley in Alpine County, and is regulated under separate Regional Board reclamation requirements.

7. Existing Onsite Wastewater Disposal Facilities

This Order authorizes continued use of the existing OWTS until the discharge to the C Line commences, and under specified circumstances thereafter. The OWTS have a total computed design capacity of 7000 gallons per day, and 1450 lineal feet of leach lines, as previously reported by the Discharger's engineer. The OWTS are suitable for continued use and will be retained in a functional state prior to, and during, Facility operation. In the event of Facility maintenance or cleaning, discharge from the Resort to the existing OWTS is authorized as specified in this Order. During a Facility malfunction, upset, emergency or other circumstances that result in a temporary inability for the Facility to meet effluent limitations contained in this Order, discharge to the existing OWTS, including untreated or partially-treated wastewater from the Facility, is authorized as specified in this Order.

Existing OWTS for the Sorenson's Resort consist of three separate systems as described below and diagrammed in Attachment C, which is hereby made a part of this Order.

a. Main OWTS: The main OWTS disposes domestic wastewater from the café, 20 single-unit cabins, a three-unit cabin, and a small laundry facility. The main OWTS consists of four-inch diameter cabin service lines, six-inch diameter sewer mains, manholes along the main lines, two septic tanks (4,000 gallons and 3,000 gallons), and 20 leach trenches. The septic tanks are located near the center of the Resort. The leaching trenches have dimensions two feet wide, 20-40 feet long, and eight feet deep, and are situated north of the septic tanks.

b. Secondary OWTS: The secondary OWTS disposes domestic wastewater from five cabin units (*Norway House, Homestead, Wa-She-Shu, Tanglewood* and *Log*). The secondary OWTS consists of four-inch diameter cabin service lines, six-inch diameter sewer mains, a 1,500-gallon septic tank, and a leach pit. The location of the septic tank is southwest of, and adjacent to, the *Log* cabin, in the northern portion of the Resort. The

leaching pit has dimensions four feet wide, 20 feet long, and ten feet deep, and is situated northwest of the septic tank.

c. Wagon Wheel OWTS: This OWTS disposes domestic wastewater from the *Wagon Wheel* cabin and consists of a 1,500 gallon septic tank (installed in 1993) that discharges to a leaching trench (50 feet long) situated north of the *Wagon Wheel* cabin, on the eastern side of the Resort property.

In 1979, the previous property owner installed a *french drain*, as shown on Attachment B, to divert shallow groundwater flows around leaching areas. As a measure to prevent failure of the existing OWTS, the Discharger has installed low-flow toilets and fixtures throughout the Resort to reduce the volume of flow to the OWTS. Despite these preventive measures, since late 2003 the Secondary OWTS leaching system has exhibited reduced percolation capacity. The Discharger has managed this disposal problem by utilizing excess capacity in the Main OWTS, and by having an authorized waste hauler pump the septic tank for the Secondary OWTS, as needed, and transport the wastes offsite for proper legal disposal.

8. Sewage Sludge Storage and Disposal

Sludge is generated in the septic tanks and in the package plant clarifier. Sludge from the package plant is stored in the separate sludge storage tank. Sludge that is not recycled in the activated-sludge treatment process will require periodic disposal. Sludge disposal will be managed in a similar manner as for the existing septic tanks, by periodic vacuum pumping by an authorized waste hauler that will transport the wastes offsite for proper legal disposal.

9. Designated Disposal Sites

The designated disposal site for Facility effluent meeting effluent limitations, as prescribed in this Order, is the District's C Line. The designated disposal sites for wastewater discharged to the OWTS are the leaching areas at the Sorenson's Resort as described in this Order.

10. Site Geology

The Sorenson's Resort is located near the base of Hope Valley, at an elevation of approximately 6800 feet above mean sea level. Generally thin soils overlying bedrock are derived from granitic parent materials, moraine deposits of glacial till at the lower end of the Hope Valley, alluvium from the West Fork Carson River, and colluvium from the adjacent mountain slopes. Slopes range from relatively mild in the meadow areas near the Resort and the river, to very steep in the canyon areas on either side of the river. Much of the alluvium likely contains restrictive clay layers derived from basaltic minerals. Poorly-drained wetland soils may form perched water tables during the late winter through early summer.

11. Site Hydrology

The West Fork Carson River is the principal surface water body in the vicinity of the Resort, and receives drainage from the Resort and surrounding areas. The river parallels the Resort development and is approximately 100-200 feet north of the Resort, on the

opposite side of State Route 88. Several unnamed springs, seeps and drainages tributary to the river flow through the Resort areas and, in combination with meadow wetlands, provide evidence of shallow water table and recharge from the mountainous areas above the Resort.

12. Site Hydrogeology

The Resort is served by an onsite ground water well. Ground water flow at the site is incompletely understood and likely consists of flow through fractured bedrock, high ground water in areas associated with meadows and the river, and seasonal perched water tables as mentioned. Ground water flow is generally assumed to follow topographic gradients towards the river canyon.

13. Receiving Waters

The receiving waters are the ground waters of the Carson Valley Ground Water Basin (Department of Water Resources Ground Water Basin No. 6-6).

14. Water Quality Control Plan

The Regional Board has adopted a *Water Quality Control Plan for the Lahontan Region* (Basin Plan), which became effective on March 31, 1995. This Order implements the Basin Plan.

15. Beneficial Uses of Ground Water

The beneficial uses of the ground water of the Carson Valley Ground Water Basin as set forth and defined in the Basin Plan are:

- a. municipal and domestic supply
- b. agriculture supply
- c. industrial service supply
- d. freshwater replenishment

Harvey Place Reservoir is not considered a water of the State and therefore has no beneficial uses defined in the Basin Plan.

16. California Environmental Quality Act Compliance

In accordance with the California Environmental Quality Act (CEQA, Public Resources Code, Section 21000, et seq.), the District has prepared a Final Environmental Impact Report (FEIR) and a Supplemental Environmental Impact Report (SEIR) for secondary-treated wastewater export and storage at Harvey Place Reservoir and subsequent recycling in Alpine County. The SEIR incorporated the FEIR by reference and was certified by the District on May 12, 1983. The project as approved by the District includes mitigation measures to reduce water quality impacts to insignificant levels and allows the District to accommodate planned growth within its service area, and additional discharges to the District storage and wastewater recycling system as authorized by Alpine County.

For CEQA purposes, the action to adopt these waste discharge requirements for the Facility is the project. The proposed discharge from the Facility to the C Line represents a tiny fraction of the current District discharge to Harvey Place Reservoir. The above-cited CEQA documents adequately analyzed and mitigated all significant or potentially significant effects of the discharge. Environmental conditions have not since changed in a manner that would lead to a reasonable conclusion that significant adverse effects to water quality or the environment would occur due to additional discharge from the project.

These waste discharge requirements, as applicable to the OWTS, also regulate the continued operation of existing facilities. As such the project to regulate the existing OWTS is exempt from the provisions of the CEQA in accordance with Title 14, California Code of Regulations, Chapter 3, Section 15301. Expansion of the existing uses of the OWTS, including as a backup system for additional lodging units, is not authorized and non-negligible expansion beyond the existing use is potentially subject to the provisions of CEQA.

17. Notification of Interested Parties

The Regional Board has notified the Discharger and interested parties of its intent to update waste discharge requirements for the discharge.

18. Consideration of Public Comments

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger shall comply with the following:

I. DISCHARGE SPECIFICATIONS

A. Effluent Limitations

1. The Facility effluent discharged to the District's C Line, as measured prior to the point of entry into the C Line, shall not exceed the following limits:

<u>Parameter</u>	<u>Units</u>	<u>Mean</u> ¹	<u>Maximum</u>
BOD ²	mg/l	30	45
COD ³	mg/l	60	300
Suspended Solids	mg/l	30	60
Settleable Solids	ml/l	---	0.1
Turbidity	NTU	10	20

2. The Facility effluent pH shall not be less than 6.5 pH units or more than 9.0 pH units.

¹ The arithmetic mean of lab results for effluent samples collected in a period of 30 consecutive days.

² Biochemical Oxygen Demand (5 day, 20°C); unfiltered samples.

³ Chemical Oxygen Demand.

3. Recycled wastewater from the Facility used for fodder crop irrigation shall be at all times adequately disinfected, oxidized wastewater. The wastewater shall be considered adequately disinfected when the median⁴ concentration of total coliform bacteria does not exceed a most probable number (MPN) of 23 per 100 milliliters (ml) utilizing the bacteriological results of the last seven days for which analyses have been completed, and the number of total coliform bacteria does not exceed an MPN of 240 per 100 ml in more than one sample in any 30-day period.
4. The Facility effluent shall not contain trace elements, pollutants, contaminants, or combinations thereof, in concentrations that are toxic or harmful to aquatic or terrestrial plant or animal life.

B. Flow Limitation

The combined flow of wastewater to the Facility and the OWTS during a 24-hour period shall not exceed 7000 gallons.

C. OWTS Disposal Provisions

1. Continuous discharge to the OWTS is authorized until such time that the Facility is constructed, put into initial operation, and discharge to the C Line has commenced in accordance with provisions of this Order.
2. After the initial discharge from the Facility to the C Line has commenced (as in C.1., above), the discharge of wastewater to the OWTS is prohibited, except when any of the following occur:
 - a. Loss of electrical power for an extended period at the Facility or export system.
 - b. Equipment failure at the Facility or export system.
 - c. Facility wastewater treatment processes are upset.
 - d. The C Line receives wet weather flows exceeding the export system flow capacity.
 - e. Any other emergency or failure at the Facility that could threaten public health or the environment.
 - f. Implementing maintenance programs for the Facility or District export system.

⁴ The median of n samples arranged in order of increasing value is defined as sample no. $(n + 1)/2$ if n is odd (e.g., the value of the 4th sample of 7 samples), and the arithmetic mean of sample no. $n/2$ and sample no. $(n/2) + 1$ if n is even (e.g., half the sum of the values of the 4th and 5th samples of 8 samples).

- g. Repairing the Facility or District export, storage, or reclaimed wastewater conveyance systems located in Alpine County.
 - h. During Facility startup, or when restarting the Facility following an upset or maintenance operations.
- 3. For purposes of this Order, "emergency" is defined as a situation or occurrence of a serious nature, developing suddenly and unexpectedly, and demanding immediate action.
- 4. When desirable to maintain emergency reserve capacity, or to assist in restarting the Facility following an upset or maintenance operations, wastewater discharged from the Resort to the OWTS septic tanks may be discharged to the Facility for treatment, and discharged from the Facility in accordance with this Order.
- 5. If discharge to the C Line is interrupted due to an emergency or other circumstances including, but not limited to, Facility start-up, the short-term discharge of treated or partially-treated water from the Facility to the OWTS is authorized as preferable to sole use of OWTS.
- 6. The Discharger shall the OWTS are inspected and maintained as necessary to assure adequate functional capability is maintained at all times.

D. Receiving Water Limitations

- 1. The discharge of waste shall not cause the presence of the following substances or conditions in ground waters of the Carson Valley Ground Water basin:
 - a. The presence of taste or odor-producing substances in concentrations that cause nuisance or that adversely affect beneficial uses. For ground waters designated as MUN, at a minimum, concentrations exceeding adopted secondary maximum contaminant levels specified in Table 64449-A of Section 64449 (Secondary Maximum Contaminant Levels-Ranges) of Title 22 of the California Code of Regulations.
 - b. In ground waters designated as MUN, a median concentration of coliform organisms over any seven-day period exceeding 1.1 MPN/100 ml.
 - c. In ground waters designated as MUN, concentrations of chemical constituents in excess of the maximum contaminant level or secondary maximum contaminant level based upon drinking water standards specified in the following provisions of Title 22 of the California Code of Regulations: Table 64421-A of Section 64431 (Inorganic Chemicals), Table 64431-B of Section 64431 (Fluoride), Table 64444-A of Section 64444 (Organic Chemicals), Table 64449-A of Section 64449 (Secondary Maximum Contaminant Levels-Consumer Acceptance Limits), and Table

64449-B of Section 64449 (Secondary Maximum Contaminant Levels-Ranges).

In ground waters designated AGR, concentrations of chemical constituents in amounts that adversely affect the water for beneficial uses.

Concentrations of chemical constituents that adversely affect the water for beneficial uses.

- d. In ground waters designated as MUN, concentrations of radionuclides in excess of the limits specified in Table 4 of Section 64443 (Radioactivity) of Title 22 of the California Code of Regulations.
- 2. Wastewater discharged from the Facility for recycling shall not contain or cause the following:
 - a. Foam or other floating material to the extent that adversely affects the water for beneficial uses.
 - b. Suspended matter concentrations that adversely affect the water for beneficial uses.
 - c. Metals, trace elements, and other pollutants in concentrations that are considered phytotoxic or in any way cause detrimental physiological responses in plant life.

E. General Requirements and Prohibitions

1. Regionwide Prohibitions and General Requirements

- a. The discharge of waste⁵ that causes violation of any narrative water quality objective contained in the Basin Plan, including the Nondegradation Objective, is prohibited.
- b. The discharge of waste that causes violation of any numeric water quality objective contained in the Basin Plan is prohibited.
- c. The discharge of untreated sewage, garbage, or other solid waste, or industrial wastes into surface waters of the Region is prohibited. (For the purposes of this prohibition, "untreated sewage" is sewage that does not meet secondary treatment standards of the Federal Water Pollution Control Act; such discharge is prohibited unless specifically regulated by a National Pollutant Discharge Elimination System permit.)

⁵ Waste is defined to include any waste or deleterious material including, but not limited to, waste earthen materials (such as soil, silt, sand, clay, rock, or other organic or mineral material) and any other waste as defined in the California Water Code, Section 13050(d).

- d. The discharge, bypass, or diversion of raw or partially treated wastewater, wastewater sludge, grease, or oils to surface waters is prohibited.
 - e. The discharge of wastewater except to the designated disposal sites (as designated in waste discharge requirements) is prohibited.
 - f. The treatment, transport, storage, or discharge of waste shall not cause a condition of pollution, threatened pollution, or nuisance as defined in Section 13050 of the California Water Code.
 - g. The discharge of oil, gasoline, diesel fuel, or any other petroleum derivative or any toxic chemical or hazardous waste is prohibited.
 - h. The Discharger shall at all times fully comply with the engineering plans, specifications, and technical reports submitted to the Regional Board.
 - i. The integrity of containment structures for wastewater and solid wastes shall be maintained and shall not be diminished in a manner that would impede compliance with waste discharge requirements as a result of any maintenance or cleaning operation.
 - j. All waste organic and chemical sludge shall only be discharged at a legal point of disposal in accordance with the provisions of Division 7.5 of the California Water Code.
2. West Fork Carson River Hydrologic Unit Prohibitions
- a. The discharge of any waste or deleterious material to surface waters of the West Fork Carson River HU is prohibited.
 - b. The discharge of any waste or deleterious material in the West Fork Carson River HU, which would cause or threaten to cause violation of any water quality objective contained in the Basin Plan, or otherwise adversely affect or threaten to adversely affect the beneficial uses of water set forth in the Basin Plan, is prohibited.
3. Best Management Practices
- a. Prior to any soil disturbance, the Discharger shall install temporary erosion control facilities to prevent transport of eroded earthen materials and other wastes off the property.
 - b. All soil-disturbing activity performed between October 15 and May 1 of each year shall be conducted in such a manner that the disturbed areas can be winterized (all soils stabilized from erosion) within 48 hours if necessary.

- c. All soil disturbance activities shall cease, and temporary erosion control measures shall be inspected and maintained as necessary, if adverse weather conditions threaten to transport disturbed soils or other wastes from the property.
- c. Upon completion of soil-disturbing activities, all disturbed areas shall be adequately stabilized from erosion in a manner that will prevent discharges of waste earthen materials in stormwater.
- d. There shall be no significant modification of existing drainage patterns. All modifications of the bed, channel, or bank of a stream, or lake bottom require prior written approval from the California Department of Fish and Game and all other appropriate state and federal agencies.
- e. Vehicle use shall be restricted to designated parking areas and driveways, and shall not be permitted in drainage courses or on steep slopes.
- f. Surface flows of stormwater from the project site shall be controlled so that they do not cause downstream erosion at any point.
- g. Stormwater runoff handling and disposal facilities shall be inspected annually, at a minimum, and maintained as needed to assure proper functioning.
- h. All disturbed soils and surplus waste earthen materials shall be removed from the property and deposited at a legal point of disposal, or restabilized onsite in accordance with appropriate erosion control practices.
- i. At no time shall waste earthen materials be placed in surface water drainage courses, or in such a manner as to allow the discharge of such materials to adjacent undisturbed land or to any surface water drainage course.
- j. Discharge of fresh concrete or grout to surface waters is prohibited.
- k. The Discharger shall immediately clean up and transport to a legal site any spilled petroleum products to the maximum extent practicable.

II. PROVISIONS

A. Rescission of Waste Discharge Requirements

Board Order No. 6-95-25 is hereby rescinded.

B. Standard Provisions

The Discharger shall comply with the "Standard Provisions for Waste Discharge Requirements," dated September 1, 1994, in Attachment D, which is hereby made a part of this Order.

C. Right to Revise Waste Discharge Requirements

In accordance with Section 13263(e) of the California Water Code, the Regional Board reserves the right to review and revise all, or any portion of, these waste discharge requirements.

D. Monitoring and Reporting

1. Pursuant to Section 13267(b) of the California Water Code, the Discharger shall comply with the Monitoring and Reporting Program No. R6T-2004-0028 as specified by the Regional Board Executive Officer.

2. The Discharger shall comply with the "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of the Monitoring and Reporting Program.

3. Monitoring and Reporting Program No. R6T-2004-0028 is subject to modification by the Regional Board Executive Officer.

E. Operator Certification


The Discharger's wastewater treatment plant shall be supervised by personnel possessing a wastewater treatment plant operator certificate of appropriate grade pursuant to *Regulations for Wastewater Treatment Plant Operator Certification and Plant Classification*, Title 23, California Code of Regulations, Division 4, Chapter 14, Section 3671 et. seq.

SORENSEN'S RESORT
WASTEWATER TREATMENT
SYSTEMS
Alpine County

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BOARD ORDER NO. R6T-2004-0028
WDID NO. 6A020009000

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on July 27, 2004.


HAROLD J. SINGER
EXECUTIVE OFFICER

Attachments: A. Resort/Facility Location Map
B. Facility Information
C. Resort OWTS Diagrams
D. Standard Provisions for Waste Discharge Requirements

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

**MONITORING AND REPORTING PROGRAM NO. R6T-2004-0028
WDID NO. 6A020009000**

FOR

**SORENSEN'S RESORT
WASTEWATER TREATMENT SYSTEMS**

_____ Alpine County _____

This monitoring and reporting program includes the following:

- I. FACILITY FLOW AND EFFLUENT MONITORING
- II. OWTS FLOW MONITORING
- III. FACILITY AND OWTS OPERATION AND MAINTENANCE
- IV. SLUDGE AND SEPTAGE DISPOSAL
- V. STORMWATER AND EROSION CONTROL
- VI. REPORTING PROVISIONS

I. FACILITY FLOW AND EFFLUENT MONITORING

A. Facility Flow Monitoring

A flow meter capable of accurately measuring effluent flow shall be maintained for the Facility and shall be capable of measuring the flow of wastewater discharged to the District's C Line and/or the OWTS. The Discharger shall monitor the total daily flow discharged from the Facility by discharge location, and shall report total effluent flow, in gallons, for each day and month.

B. Plant Effluent Monitoring

- 1. The Discharger shall collect grab samples of effluent from the Facility that are representative of the discharge prior to the point of entry to the C Line.
- 2. Samples used for compliance determinations shall be collected between the hours of 8:00 a.m. and 7:00 p.m. local time.
- 3. Facility Startup Operational Monitoring: The following monitoring is prescribed as the minimum necessary to demonstrate compliance for discharge to the C-Line when starting the Facility, or restarting the Facility following an upset or maintenance operations that could adversely affect compliance with waste discharge requirements.
 - a. The Discharger shall sample Facility effluent as needed until compliance with the effluent limitations in Section I.A. of the waste discharge requirements is demonstrated for the monitoring parameters specified in Table 1, below. Compliance shall be demonstrated if all 30-day mean limitations are met for at least two consecutive samples obtained within a period of 15 or fewer consecutive days.

Table 1: Effluent Constituents

<u>Parameter</u>	<u>Units</u>	<u>Limitations</u>
pH	pH	6.5 to 9.0
		30-day mean; (max.)
Turbidity	NTU	10; (20)
Suspended Solids	mg/l	30; (60)
Chemical Oxygen Demand	mg/l	60; (300)

- b. Two samples shall be obtained within a 15-day period for total coliform testing. Compliance shall be demonstrated if total coliform is less than or equal to 23MPN/100ml for the two samples. If total coliform exceeds 23MPN/100ml for any sample, testing shall be conducted thereafter at least once during each 7-day period until compliance with a median value of 23MPN/100ml or less is attained for the last seven days for which analyses have been completed, with not more than one sample exceeding 240MPN/100ml in any 30-day period.
4. Facility Operational Monitoring During Routine Operation: After discharge to the C-Line commences or recommences, the following monitoring is prescribed as the minimum necessary to demonstrate compliance for continuing discharge to the C-Line. The Discharger may conduct more frequent analyses if desired to demonstrate compliance with mean and median limitations. If any testing indicates an excursion from the limitations in Section I.A. of the waste discharge requirements, the Discharger shall implement the sampling requirements in No. 3, above, and cease discharging to the C-Line if additional excursions or violations of limitations are detected.
 - a. The Discharger shall sample Facility effluent once each calendar month, at a minimum, with not more than 28 days between sample collection dates. Effluent samples shall be tested for the parameters specified in Table 1, above.
 - b. The Discharger shall sample Facility effluent for total coliform once each calendar month, at a minimum, with not more than 28 days between sample collection dates. Compliance shall be demonstrated if the total coliform concentration does not exceed 23MPN/100ml for any sample, unless the Discharger has sample data collected at least every 7 days showing that a median value of 23MPN/100ml is attained for seven consecutive samples, with not more than one sample exceeding 240MPN/100ml in any 30-day period.
5. Results of all analyses completed shall be reported to the Regional Board.
6. The Discharger shall ensure visual monitoring of the Facility and the effluent discharge is conducted by properly-trained personnel on a **daily** basis during Facility operation to detect potential problems (e.g., equipment malfunctions, clogs, excessive turbidity, unusual odors, etc.) that could affect compliance

with waste discharge requirements. The records of observations shall be maintained in an operations logbook for the Facility, and need not be reported to the Regional Board, but shall be maintained for not less than three years and shall be made available to Regional Board staff upon request.

II. OWTS FLOW MONITORING

A flow meter capable of accurately measuring or estimating wastewater discharged to the OWTS shall be maintained and operated whenever flow to the OWTS is occurring. If discharge to the OWTS is not via the Facility, flow estimates may be obtained by monitoring total water supplied to structures at the Sorenson's Resort connected to the OWTS. The Discharger shall monitor the total daily flow discharged into the OWTS, and shall report total effluent flow, in gallons, for each day and month.

III. FACILITY AND OWTS OPERATION AND MAINTENANCE

- A. The OWTS shall be inspected as needed, and annually at a minimum, to ensure that adequate functional capability is maintained at all times. The Discharger shall annually certify that the OWTS are fully functional to operate as a back-up system for the Facility, or shall propose corrective actions and a schedule for their completion.
- B. The Discharger shall provide a summary of any operational problems and/or maintenance activities that shall be submitted to the Regional Board with each monitoring report. This summary shall discuss:
 - 1. Any modifications, polymer additions, or changes to the Facility that could affect compliance with waste discharge requirements.
 - 2. Any major maintenance conducted on the Facility or OWTS, including dates and a description of activities, and the entities conducting the maintenance.
 - 3. Any problems or circumstances with the Facility or OWTS operations that could affect compliance with waste discharge requirements, and planned corrective actions with a schedule for completion.
 - 4. The calibration of any measuring or sampling devices.
 - 5. Inspections of the Facility and OWTS, the name of the inspector, and a summary of the inspection scope and findings.
 - 6. During periods of OWTS operation, inspections of the leaching areas for surfacing effluent or other disposal problems.
 - 7. Any emergency conditions or other circumstances that necessitate operation of the OWTS, as authorized, to maintain compliance with waste discharge requirements.
 - 8. Any wastes or wastewater removed from the OWTS and discharged to the Facility to maintain reserve capacity in the OWTS, or to start the Facility following a Facility upset or Facility maintenance operations.
 - 9. Any wastes or wastewater removed from the Facility and discharged to the OWTS.

IV. SLUDGE AND SEPTAGE DISPOSAL

The Discharger shall monitor and report on a monthly basis the amount of sludge and septage removed from the Facility or OWTS, respectively. Reports shall indicate the dates of removal, volumes removed from various storage areas, and the name of the entity authorized to remove and dispose of the sludge. The report shall include, by storage location, an estimate of the total quantity of sludge being stored onsite.

V. STORMWATER AND EROSION CONTROL

The Sorenson's Resort shall be fully inspected by the Discharger at least twice each year, and in May and November. The purpose of the inspections is to discover potential erosion and surface runoff problems so the corrective measures may be initiated without undue delay. The inspections shall assess the need for maintenance of stormwater and erosion controls (sediment removal, vegetation re-establishment, repairs to vehicle barriers, removing deris from storm drains, etc.). Following the inspections, the Discharger shall conduct any necessary maintenance on erosion and stormwater controls to ensure that they are functioning properly. The date of the inspection and results of the inspection, and any follow-up maintenance performed, shall be reported to the Regional Board.

Any erosion or surface runoff problems identified on the subject property shall be clearly described, together with corrective measures proposed by the Discharger and a schedule for their completion. In the event that no specific problems are found on the property, a statement certifying this condition must be included for each semi-annual inspection.

VI. REPORTING PROVISIONS


A. General Provisions

1. The Discharger shall comply with the "General Provisions for Monitoring and Reporting," dated September 1, 1994, in Attachment 1, which is hereby made a part of this Monitoring and Reporting Program.
2. Each monitoring report submittal shall include a cover letter containing the information and certification in the Monitoring and Reporting Cover Letter in Attachment 2, which is hereby made a part of this Monitoring and Reporting Program.
3. The Discharger shall clearly identify any violations of waste discharge requirements in self-monitoring reports and any other facility compliance information provided to the Regional Board. For every item where the requirements are not met, the Discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and shall submit a timetable for correction.

B. Submittal Periods

The Discharger shall submit monitoring reports on a **quarterly** basis. Each quarterly monitoring report shall contain the monitoring information obtained during the previous quarter, as required in this Monitoring and Reporting Program. Reporting due dates are specified as follows:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January 1 – March 31	April 15
April 1 – June 30	July 15
July 1 – September 30	October 15
October 1 – December 31	January 15

Ordered by:  Dated: July 27, 2004
HAROLD J. SINGER
EXECUTIVE OFFICER

- Attachments: 1. General Provisions for Monitoring and Reporting
2. Monitoring and Reporting Cover Letter

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

ATTACHMENT 1

GENERAL PROVISIONS
FOR MONITORING AND REPORTING

I. SAMPLING AND ANALYSIS

- A. All analyses shall be performed in accordance with the current edition(s) of the following documents:
 - 1. Standard Methods for the Examination of Water and Wastewater
 - 2. Methods for Chemical Analysis of Water and Wastes, EPA
- A. All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Regional Board Executive Officer. Specific methods of analysis must be identified on each laboratory report.
- B. Any modifications to the above methods to eliminate known interferences shall be reported with the sample results. The methods used shall also be reported. If methods other than EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board Executive Officer prior to use.
- C. The discharger shall establish chain-of-custody procedures to insure that specific individuals are responsible for sample integrity from commencement of sample collection through delivery to an approved laboratory. Sample collection, storage, and analysis shall be conducted in accordance with an approved Sampling and Analysis Plan (SAP). The most recent version of the approved SAP shall be kept at the facility.
- D. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall insure that both activities will be conducted. The calibration of any wastewater flow measuring device shall be recorded and maintained in the permanent log book described in 2.b, below.
- E. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
- F. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period at equal intervals. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

II. OPERATIONAL REQUIREMENTS

A. Sample Results

Pursuant to California Water Code Section 13267(b), the discharger shall maintain all sampling and analytical results including: 1) strip charts; 2) date, exact place, and time of sampling; 3) date analyses were performed; 4) sample collector's name; 5) analyst's name; 6) analytical techniques used; and 7) results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

B. Operational Log

Pursuant to California Water Code Section 13267(b), an operation and maintenance log shall be maintained at the facility. All monitoring and reporting data shall be recorded in a permanent log book.

III. REPORTING

- A. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and shall submit a timetable for correction.
- B. Pursuant to California Water Code Section 13267(b), all sampling and analytical results shall be made available to the Regional Board upon request. Results shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- C. The discharger shall provide a brief summary of any operational problems and maintenance activities to the Board with each monitoring report. Any modifications or additions to, or any major maintenance conducted on, or any major problems occurring to the wastewater conveyance system, treatment facilities, or disposal facilities shall be included in this summary.
- D. Monitoring reports shall be signed by:
 - 1. In the case of a corporation, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
 - 2. In the case of a partnership, by a general partner;
 - 3. In the case of a sole proprietorship, by the proprietor; or

4. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

E. Monitoring reports are to include the following:

1. Name and telephone number of individual who can answer questions about the report.
2. The Monitoring and Reporting Program Number.
3. WDID Number.

F. Modifications

This Monitoring and Reporting Program may be modified at the discretion of the Regional Board Executive Officer.

IV. NONCOMPLIANCE

Under Section 13268 of the Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000.00) for each day of violation.